

Application No. 10/628,579
After Final Office Action of October 19, 2005

Docket No.: 2901745.000007-1

AMENDMENTS TO THE CLAIMS

1-3. (canceled)

4. (currently amended) An Al-Mg alloy that has been subjected to at least one sensitization treatment conducted from 80-200 degrees C, said alloy comprising a modified AA5083 alloy containing 0.05 to 0.2% Cu, 0.3 to 0.6% Zn, and <0.05% Zr;

~~Cu 0.05-0.2%;~~

~~Zn 0.3-0.6%;~~

~~Mg 4.0-5.0%;~~

~~Mn 0.4-1.0%;~~

~~Incidental impurities; and~~

~~Al balance.~~

5. (currently amended) An Al-Mg alloy according to claim 4, further comprising Ag 0.03-0.23%.

6. (cancelled)

7. (currently amended) An Al-Mg-alloy comprising a modified AA5083 alloy containing 0.05 to 0.2% Cu, 0.3 to 0.6% Zn, and <0.05% Zr;

~~Cu 0.05-0.2%;~~

~~Zn 0.3-0.6%;~~

~~Mg 3.5-5.0%;~~

~~Mn 0.4-1.0%;~~

~~Incidental impurities; and~~

~~Al balance,~~

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wherein upon being subjected to a sensitization treatment at a temperature from 80-200°C, a quaternary Al-Mg-Zn-Cu phase is formed at grain boundaries.

8. (cancelled)

9. (previously presented) An Al-Mg alloy consisting essentially of a modified AA5083 alloy containing 0.05 to 0.2% Cu, 0.3 to 0.6% Zn, <0.05% Zr, and:

~~Cu 0.05-0.2%;~~

~~Zn 0.3-0.6%;~~

~~Mg 4.0-5.0%;~~

~~Mn 0.4-1.0%;~~

~~Ag 0.03-0.23% Ag;~~

~~Incidental impurities; and~~

~~Al balance.~~

10. (currently amended) An Al-Mg alloy consisting essentially of a modified AA5083 alloy containing 0.05 to 0.2% Cu, 0.3 to 0.6% Zn, and <0.05% Zr:

~~Cu 0.05-0.2%;~~

~~Zn 0.3-0.6%;~~

~~Mg 4.0-5.0%;~~

~~Mn 0.4-1.0%;~~

~~Incidental impurities; and~~

~~Al balance.~~

11-15. (cancelled)

16. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 4.

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17-21. (cancelled)

22. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 7.

23. (cancelled)

24. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 9.

25. (previously presented) A marine product, railcar product, dump body, chemical tank cars, cryogenic application and/or auto body panel comprising an Al-Mg alloy according to claim 10.

26-37. (cancelled)

38. (previously presented) An Al-Mg alloy according to claim 7, comprising a tau phase having an average size from about 0.1 to about 1 μm and a mass loss according to ASTM G 67 of less than about 40 mg/cm^2 .

39. (previously presented) An Al-Mg alloy according to claim 38, wherein said mass loss is less than about 27 mg/cm^2 .

40-41. (cancelled)

42. (new) An Al-Mg alloy according to Claim 9, wherein upon being subjected to a sensitization treatment at a temperature from 80 to 200 °C, a quaternary Al-Mg-Zn-Cu phase is formed at grain boundaries.

43. (new) An Al-Mg alloy according to Claim 10, wherein upon being subjected to a sensitization treatment at a temperature from 80 to 200 °C, a quaternary Al-Mg-Zn-Cu phase is formed at grain boundaries.